

Focus Report
New Chemicals Program
PMN Number: **P-91-0391**

Focus Date: 01/24/1991 12:00:00 AM Report Status: Completed
Consolidated Set:
Focus Chair: P. Matthai Contractor: JSB

I. Notice Information

Submitter: SNPE Inc. CAS Number:
Chemical Name: ACRYLIC ACID, ESTER WITH 3-(2-HYDROXYETHYL) 2-OXAZOLIDONE

Use: Reactive Diluent for UV lithograph inks 50%
Varnishes 50%

Other Uses: Awaiting ISIS Entry
PV-Max: 30,000 Kg/yr
Manufacture:

Import:

Production Volume other information:

II. SAT Results

(1) Health Rating: 2 Eco Rating: 2 Comments: ;

Additional SAT information:

Occupational: 1-2 Non-Occupational: 0-1 Environmental:

(1) PBT: Comments:

Awaiting Fate Entry	Awaiting Fate Entry	Awaiting Human Health Entry	Awaiting Fate Entry
Awaiting Fate Entry	Awaiting Fate Entry	Awaiting Human Health Entry	Awaiting Fate Entry
Awaiting Fate Entry	Awaiting Fate Entry	Awaiting Human Health Entry	Awaiting Fate Entry

III. OTHER FACTORS

Categories:

Health Chemical Category: Acrylates/Methacrylates Ecotox SAR and TSCA New Chemical Category: ; Acrylates/Methacrylates,

Related Cases/Regulatory History:

Health related Cases:
Ecotox Related Cases:
Regulatory History:

MSDS/Label Information:

MSDS: Yes

Exposure Based Information:

Exposure Based Review:	Exposure Based Review (Health):
Exposure Based Review (Eco):	Exposure Based (Occupational): No
Exposure Based Review (Non Occupational):	Exposure Based (Environmental):

IV. Summary of SAT Assessment

Legacy SAT assessment: Health: Expect absorption through all routes. Concerns are for ONCO and MUTA from the acrylate. Test data from rabbit studies shows corneal opacity. Additional concerns for eye irritation.

Ecotox: Values are based on the Acrylate QSAR. Acute values: fish 6 ppm, daphnid 156 ppm, algae 17 ppm. Chronic algal NOEC is 11 ppm. The COC is 60 ppb based on acute fish value.

Fate:

Fate Summary:

Health:

Health Summary: Awaiting Human Health Entry

Ecotox:

Ecotox Values:

Fish 96-h LC50:

Daphnid 48-h LC50:

Green algal 96-h EC50:

Fish Chronic Value:

Daphnid ChV:

Algal ChV:

Ecotox Factors:

Assessment Factor:

Concern Concentration:

- Acute Value

Concern Concentration:

- Chronic Value

Legacy summary of exposures and releases: MSDS: gloves goggles, ventilation, protective mask.

Import:

Processing as varnish: 1-2 sites, 3-6 workers, 20-40 days/yr. Inhalation <20 mg/day. Dermal contact 3900 mg/day. 50 kg/yr to be incinerated.

Processing as Ink: 1-2 site, 3-6 workers, 40-80 days/yr. Inhalation <10 mg/day. Dermal Contact 3900 mg/day. 50 kg/yr to be incinerated

Use as varnish: 5 site, 15 workers, <100 days/yr. Inhalation 1 mg/day. Dermal contact 2000 mg/day. 150-450 incinerated or landfilled.

Use as ink: 5 sites, 15 workers, <100 days/yr. Inhalation <0.5 mg/day. Dermal contact at 585 mg/day.

V. Summary of Exposures/Releases

Engineering Summary:

Exposures/Releases			
Scenario			
Sites			
Media			
Descriptor A			
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

VI. Focus Decision and Rationale

Regulatory Actions

Regulatory Decision: Consent Order

Decision Date: 01/24/1991

Type of Decision:

Rationale: P91-391 will be regulated with a category 5(e) Consent Order for acrylates requiring the use of 23C respirators and pending a 2 year bioassay.

P2 Rec Comments:

Testing:

Final Recommended:

Health:

Eco:

Fate:

Other: